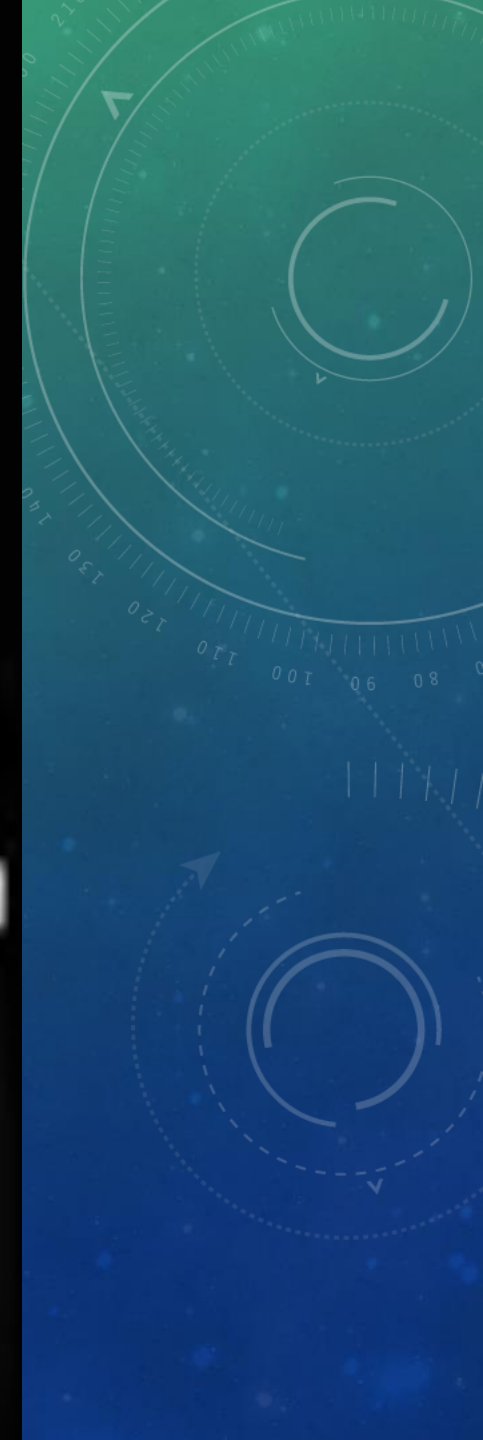
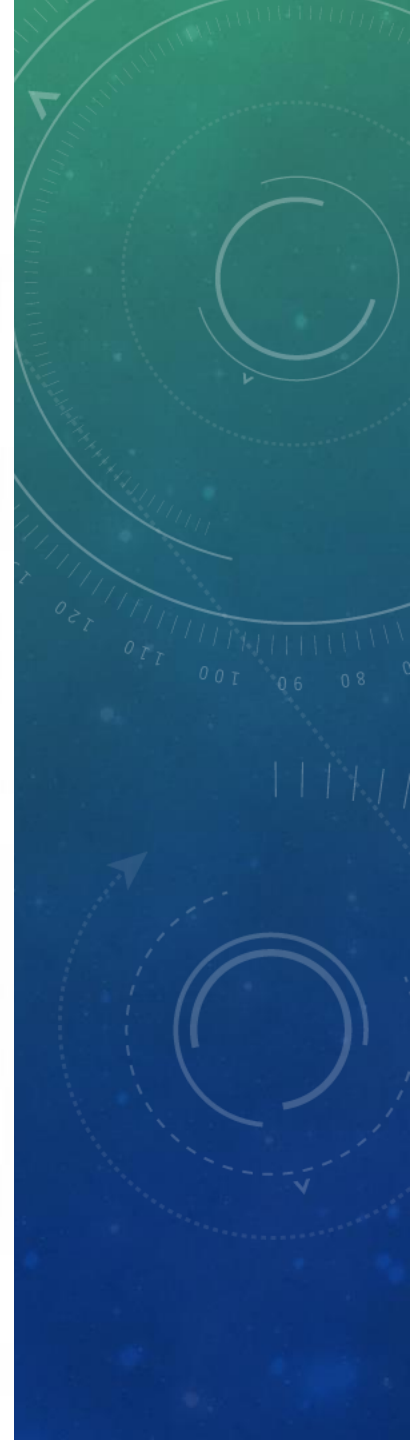
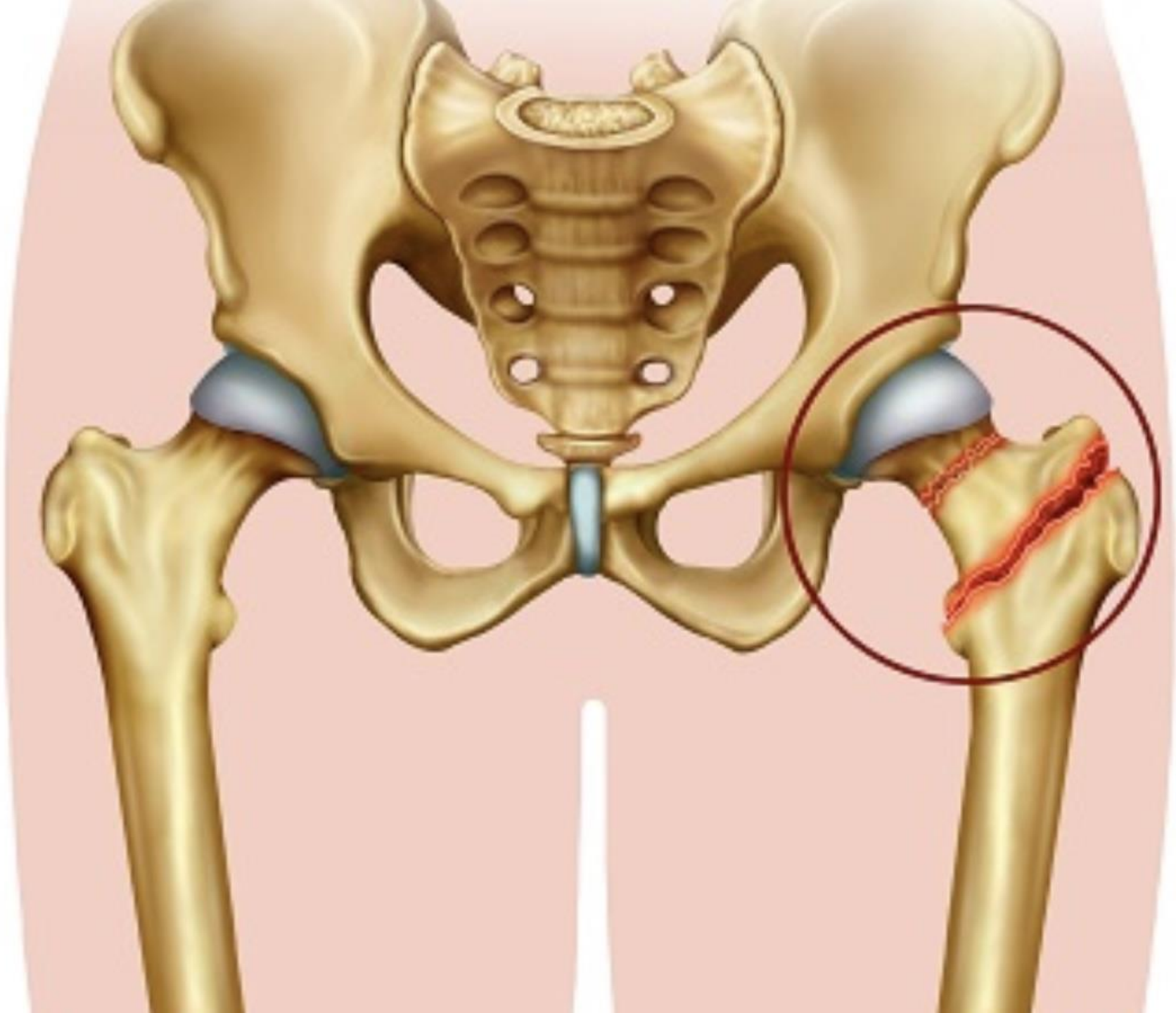


The background features a gradient from light green at the top to dark blue at the bottom. On the left side, there are several circular and semi-circular patterns, some resembling gauges or scales. One prominent scale has numerical markings from 140 to 260 in increments of 10. Other circles contain curved lines and arrows, suggesting motion or rotation. The overall aesthetic is technical and futuristic.

# EVOLUTION OF HIP FRACTURE DEVICES









**Subcapital neck  
fracture**

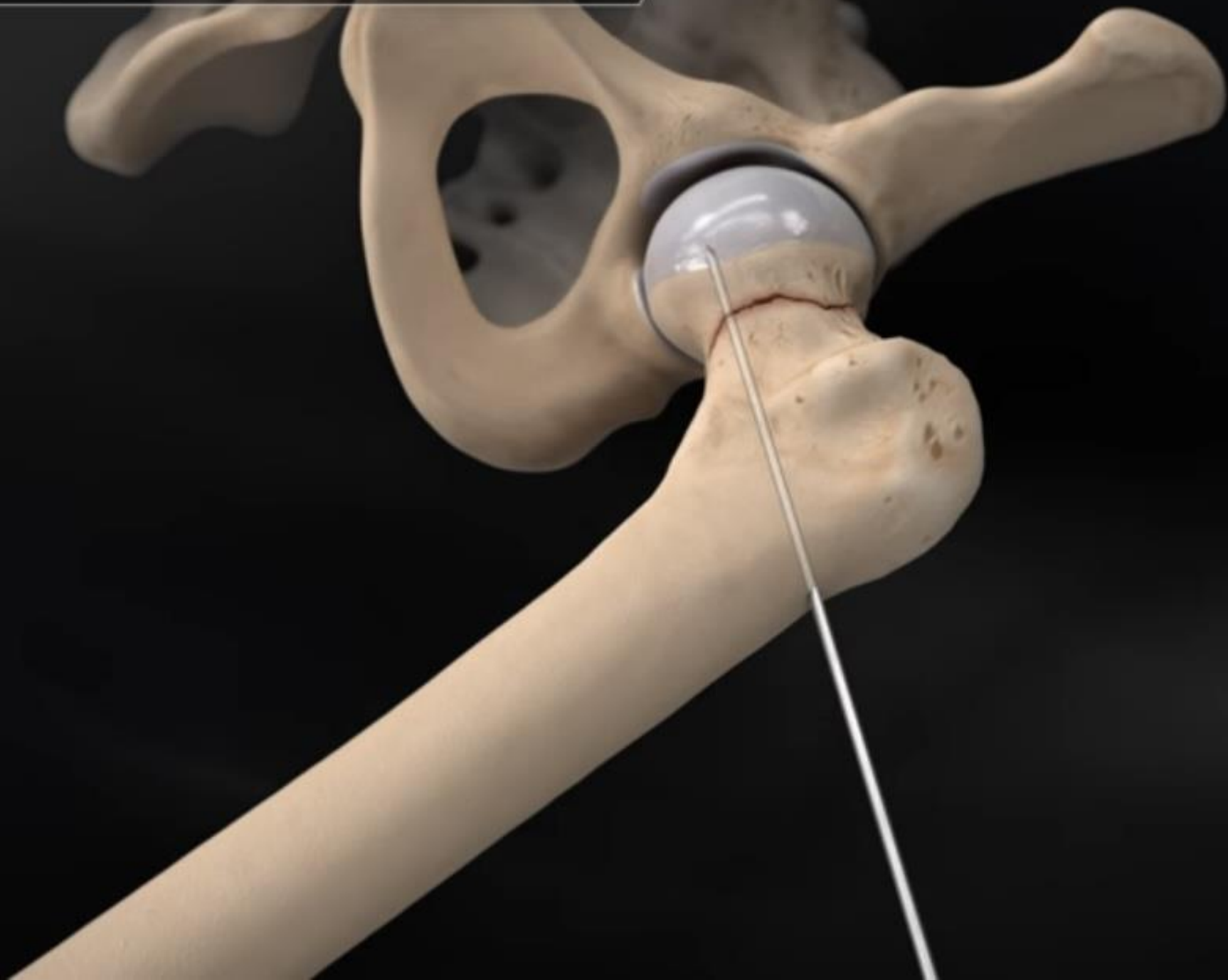


**Transcervical neck  
fracture**



**Intertrochanteric  
fracture**

ure Repair with 6.7 mm Cannulated Screws



Caudal

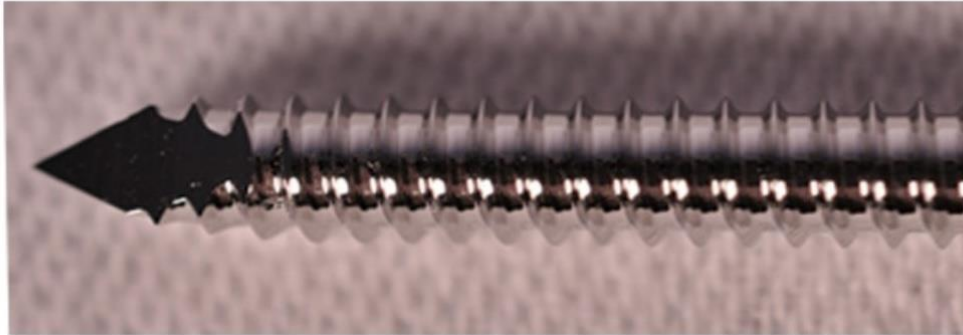
Cran



- Shaft diameters: 1/8" (3.2 mm) and 5/22" (4.0 mm)



Threaded end with trocar point shown below.

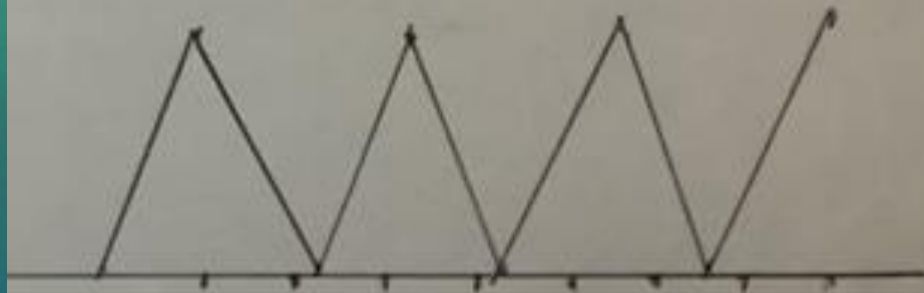


Break-off shaft shown below.





# Normal screw thread





## Additional Info

Unit of Measurement: Each

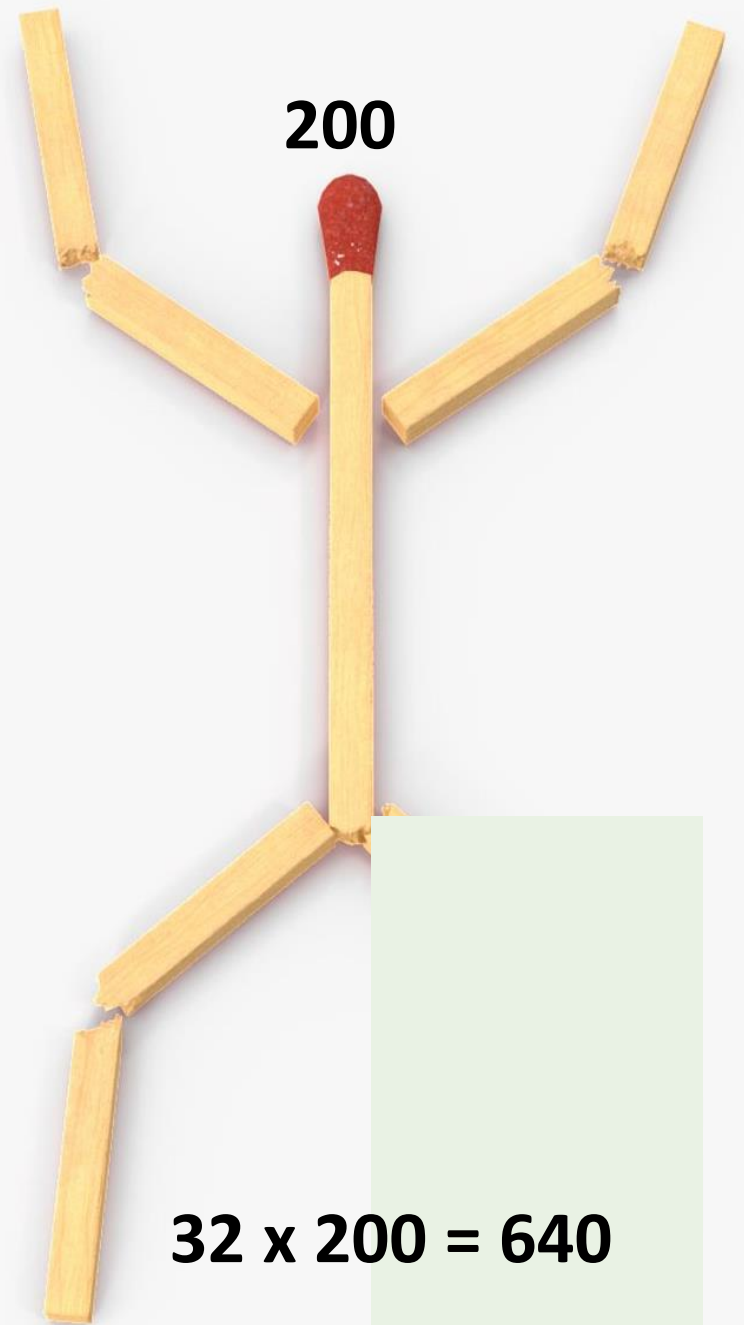
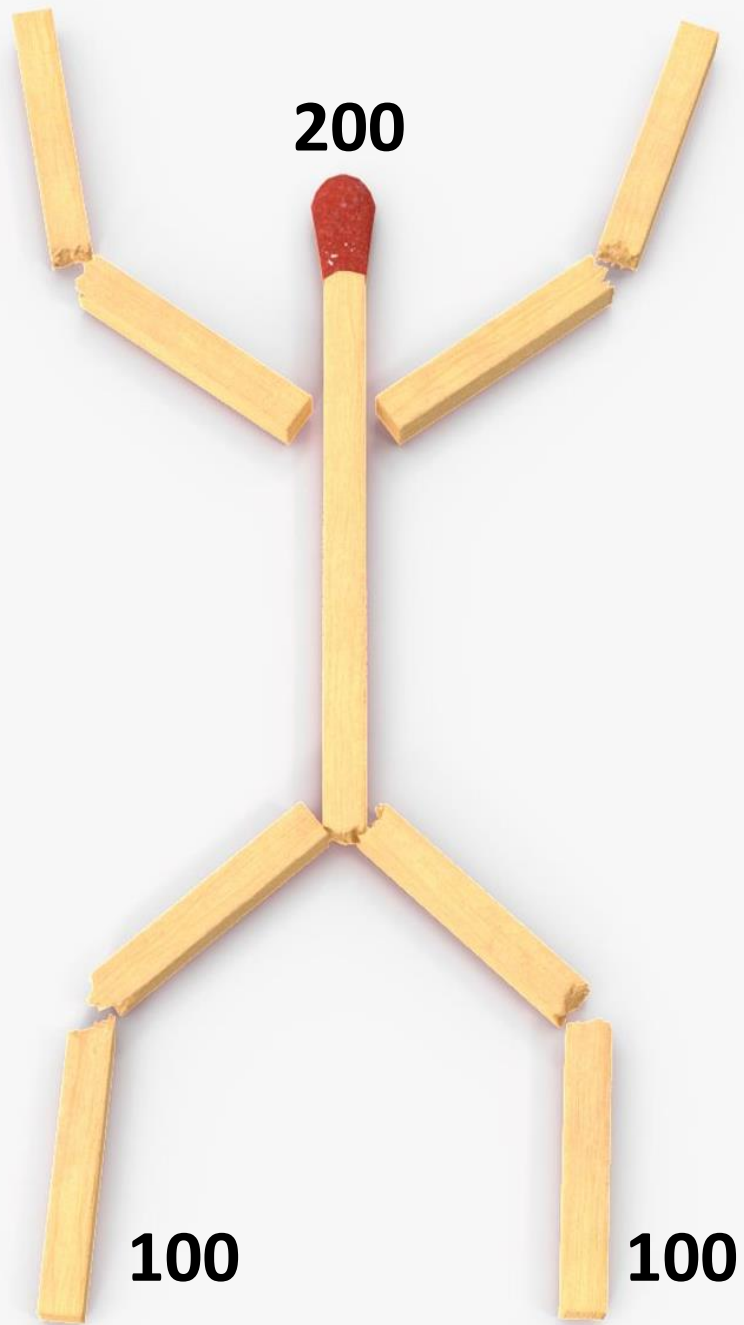
Features include:

- Made of stainless steel
- Trocar point.
- Thread length: 1.09" (28 mm)
- Threads per Inch: 48 (397-01); 40 (397-02)
- Overall length: 6" (15.2 cm)

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## Breakage of Knowles pins used for femoral neck ... -

by JAL Requena · 1993 — We report the breakage of multiple **Knowles pins** in the treatment of femoral neck fractures of the femoral neck. The break occurred at the junction of the three



# SMITH/PETERSEN NAIL

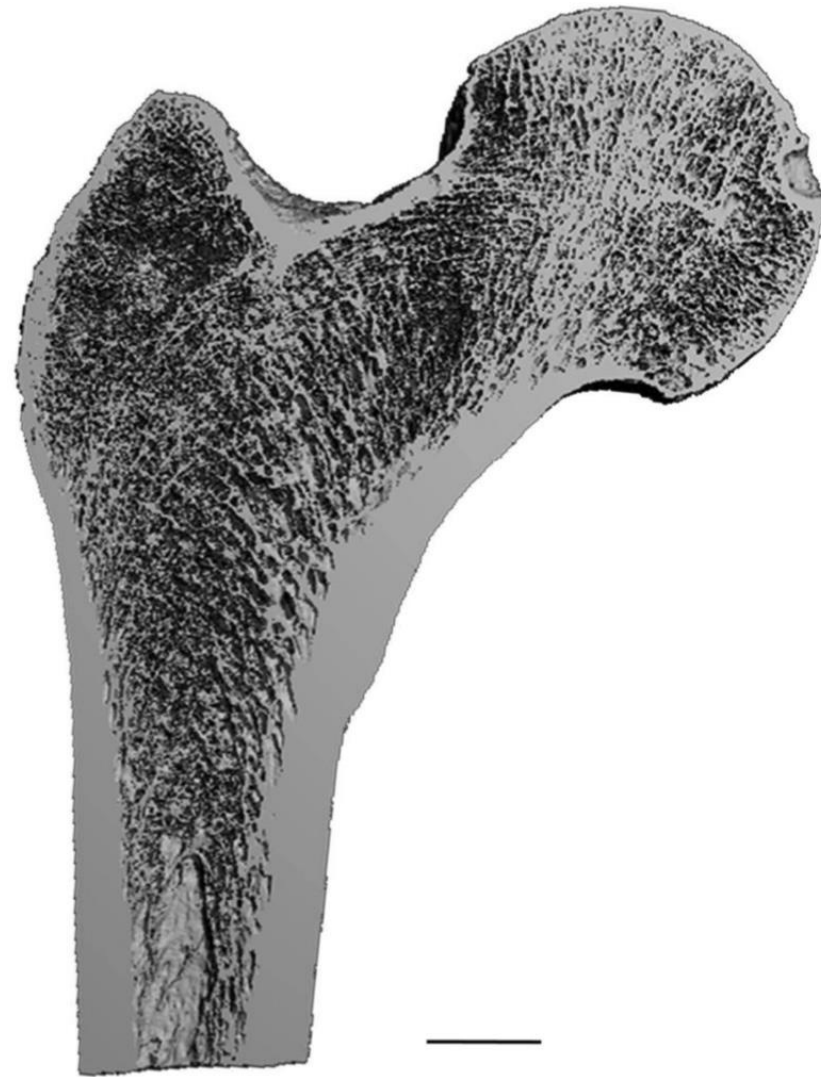




# Jewett Nail Plate (Modified)



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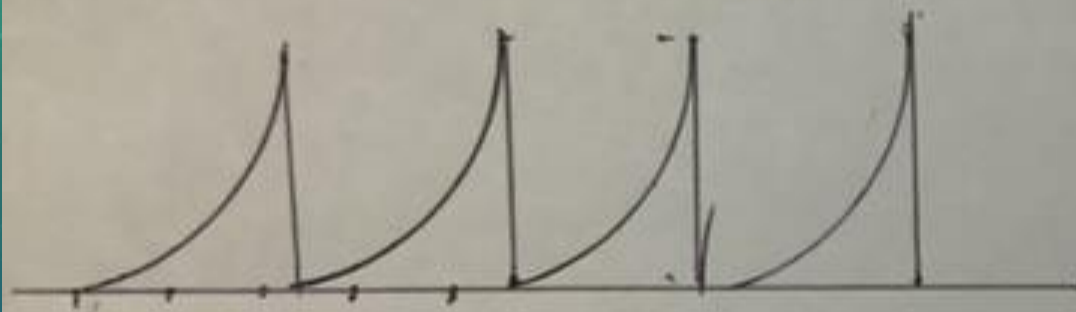


**Fig. 2.** Porous trabecular and dense cortical bone in a proximal human femur as assessed by high-resolution computed tomography (image courtesy of T. L. Mueller, Institute for Biomechanics, ETH Zurich, Zurich, Switzerland). Scale line 10 mm.





# Modified screw thread (Cannulated)



Lag Screws  
lengths: 60mm-105mm  
Nonself-tapping for cancellous bone  
Scratch Resistant Surface (SRS)

Angles 135°  
Lengths 60mm to 300mm, 2th 12 slots  
Barrel Lengths Standard plate barrels are  
38,1mm long, Selected sizes are available  
with a shorter 25,9mm barrel,

Compression Screws  
Lengths - 19,0mm and 28,5mm

Medical fragments can be  
captured by inserting a 6,5mm  
cannulated or 6,5mm  
cancellous screw through  
the proximal slot, Richards  
6,5mm cannulated screws are  
available from 25mm to 120mm  
in 5mm increments,

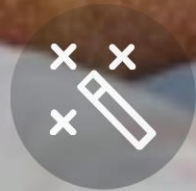
6,5mm Self-tapping  
Cortical Bone  
Screws  
5 lengths -  
6mm - 64mm

Compression slots can be used to  
gain up to 2mm of compression  
along the shaft of the femur,

The distal slot in plates with 8 or  
more holes can be used to gain  
up to 5,5mm of shaft compression



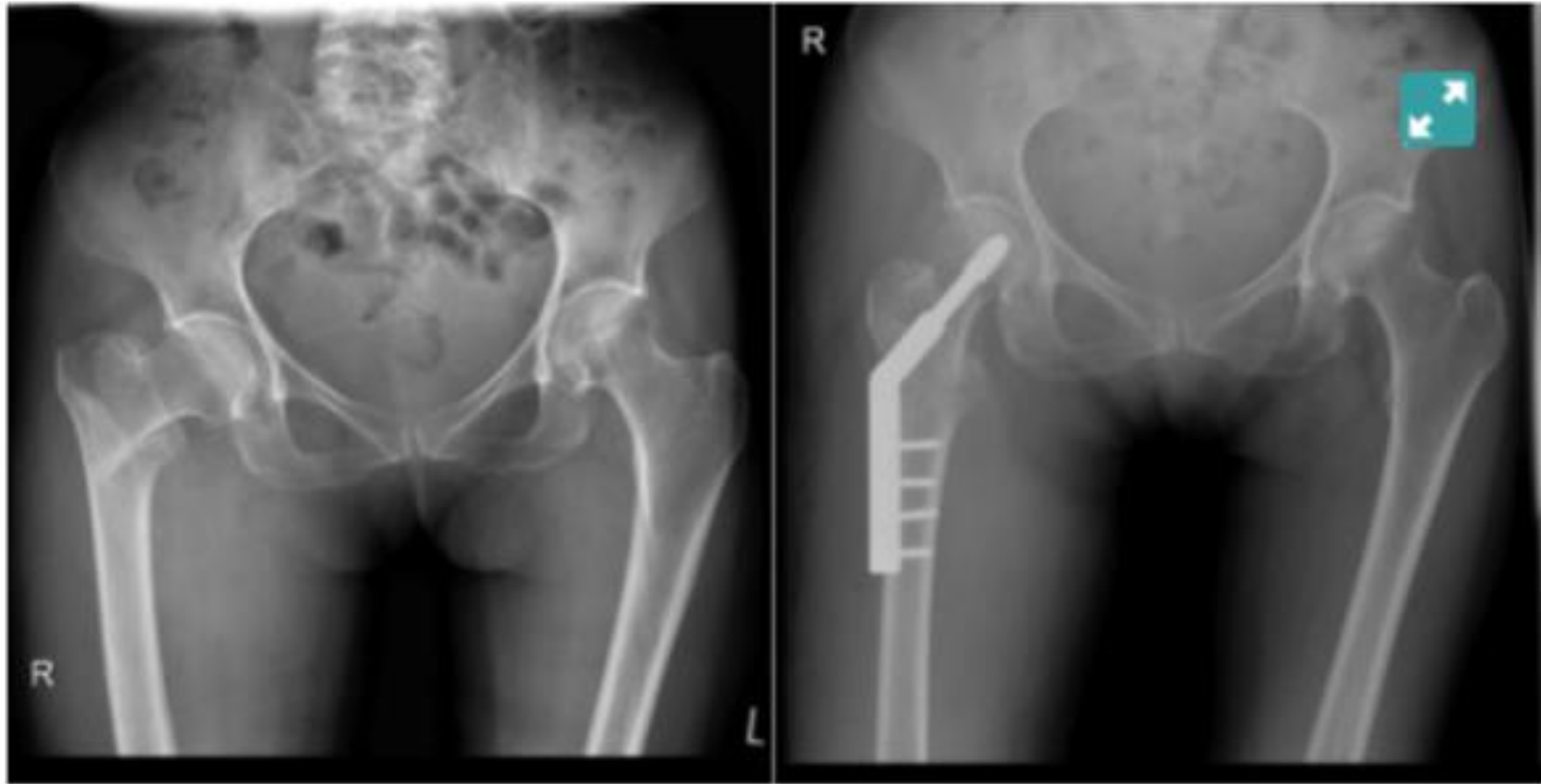








# Intertrochanteric fracture



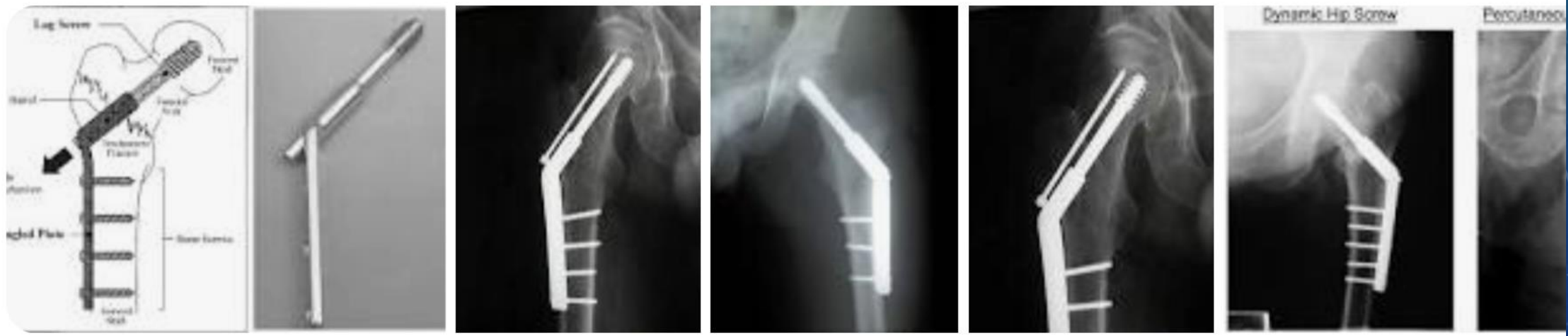
Intertrochanteric femur fracture. This is an extracapsular fracture which

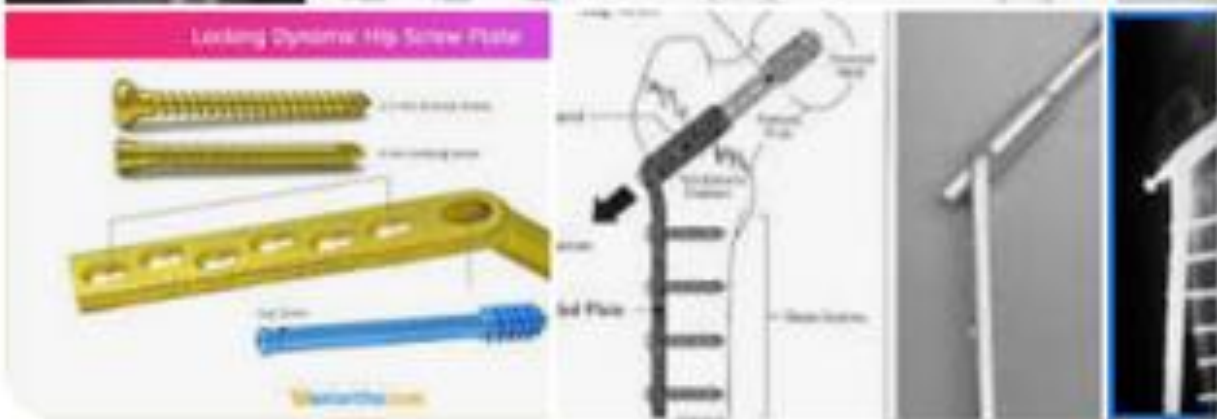


# Best Dynamic hip screw Hospitals and Cost in Thailand - Lyfboat

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society leads, among other things, to an increased frequency of intertrochanteric femur fractures. In the choice between a conservative or an operative treatment of these fractures, the latter method has recently been more and more recommended, its great advantage being that it allows early mobilization of the patient more frequently. The importance of this is obvious. In order to be able to mobilize the patient as soon as possible after the operation a method of fixation should be chosen which offers the greatest possible stability. The Richards compression and sliding hip screw system seems to fulfil this demand better than other methods (Clawson 1964, Dahlberg et al. 1970, Bosacco et al. 1972, Friedenbergs 1972). For this reason this method of fixation has been employed as a routine treatment of intertrochanteric fractures since March 1971 at the Department of Surgery, Central Hospital in Halmstad.

In this article, experiences and results obtained during the first 12 months in which the method was employed will be described. The results will be compared with those of the preceding 12-month period, when McLaughlin osteosynthesis was the routine method of treatment.

## TEXT OF THE RICHARDS COMPRESSION AND SLIDING HIP SCREW SYSTEM IN THE TREATMENT OF INTERTROCHANTERIC...

A gradual shift towards an increased number of elderly people in our society leads, among other things, to an increased frequency of inter-trochanteric femur fractures. In the choice between a conservative or an operative treatment of these fractures, the latter method has recently been more and more recommended, its great advantage being that it allows early mobilization of the patient more frequently. The importance of this is obvious. In order to be able to mobilize the patient as soon as possible after the operation a method of fixation should be chosen which offers the greatest possible stability. The Richards compression and sliding hip screw system seems to fulfil this demand



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## Abstract

In order to compare accurately fixed nail plates with sliding implants 13 randomised, quasi-randomised or comparative studies, involving a total of 2,855 patients, which compared these implants, were systematically reviewed. In addition the results of a further 214 patients treated in a prospective audit are presented. Results showed an increased risk of cut-out (13% versus 4%), non-union (2% versus 0.5%), implant breakage (14% versus 0.7%) and re-operation (10% versus 4%) for fixed nail plates in comparison with the sliding implants. In addition patients treated with fixed nail plates had a higher mortality and the survivors were more likely to have residual pain in the hip and impaired mobility. The continued use of fixed nail plates cannot be justified given the unequivocal superiority of the sliding hip screw.

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